

EX03-098C-US patentin.txt
SEQUENCE LISTING

<110> EXELIXIS, INC.
<120> FLJ10607 AS MODIFIER OF THE AXIN PATHWAY AND METHODS OF USE
<130> EX03-098C-US
<150> US 60/436,965
<151> 2002-12-30
<160> 5
<170> PatentIn version 3.2
<210> 1
<211> 3966
<212> DNA
<213> Homo sapiens

<400> 1
gggcgggttg cgccttgcc tccgcctccg ctgcctgcg cgcggccctg cgtgaggggg 60
cagaggcgag gtggaggcgt tggcgctgcc acgtctgggc cgcggttccc aactgtggcg 120
cgggcgggttg aggaggaggt ggggctggcg ctgaagcccg atccggatcc ggtgctgtgc 180
acactgggttg gggagagtcc gacgcgcctg gctaggagcg ccgaccgcag ggccctctacg 240
gttcctgtaa ccagcacagt gcctgattca tgaattaaag accttactag aaaaatgaaa 300
cctgatgaaa ctcttatgtt tgacccaagt ctactcaaag aagtggactg gagtcagaat 360
acagctacat tttctccagc catttcccca acacatcctg gagaaggctt ggttttgagg 420
cctctttgta ctgctgactt aaatagaggt ttttttaagg tattgggtca gctaacagag 480
actggagttg tcagccctga acaatttatg aaatcttttg agcatatgaa gaaatctggg 540
gattattatg ttacagttgt agaagatgtg actctaggac agattgttgc tacggcaact 600
ctgattatag aacataaatt catccattcc tgtgctaaga gaggaagagt agaagatggt 660
gttgttagtg atgaatgcag aggaaagcag cttggcaaat tgttattatc aacccttact 720
ttgctaagca agaaactgaa ctgttacaag attacccttg aatgtctacc acaaaatggt 780
ggtttctata aaaagtttg atatactgta tctgaagaaa actacatgtg tcggagggtt 840
ctaaagtaaa aatcttgtaa gaaaattgtc aaaggggcta atgctacaag gctacactct 900
tcctagagtt gaaatatttt gttgctgcag ccgagtgacc tccataaata ctggactgaa 960
aaaacattgt aatactacaa gtataatgac atttagaaga ttactttggg ctggtgggac 1020
atgctgtgaa tttagattac aaatgaatat tataaagggg atgattttta accaaaggaa 1080
tatattttta acttgaatct tttcttgcag tgtatttttc taaaagtttg gcttcctttc 1140
ttggtagtca agagtatggg taataaggag ttatatgtct gctatctgtg ttgctcattt 1200
aaaaaaagta tacattgaat aaggctgttt atcacatgca taaaattaaa tatttttgtt 1260

EX03-098C-US patentin.txt

| | |
|---|------|
| tcaaagaaac atctcaatac acttaggggt gtattgtttc ccacatatta agtcaggggtg | 1320 |
| gataaattag ttattataac taaacatagt atagtccaac attcgttgat cccaatacag | 1380 |
| gcaaacaacc tgggtcaacct tttgaagtag aagaaatgaa aattacttga caagattaaa | 1440 |
| agtaaaacaa tttaaatgtt ttactgaaag tttatatagt atagtctatg tagataaaaa | 1500 |
| gtaccacttg tcttttctgt gaattatgac tattcatttg ttaaaaatac ctaagagcaa | 1560 |
| ttatagtggg acatctaagg tcctctgtaa acagtgaatt agcaaaccctc agcctatgtg | 1620 |
| tttctaccct gatttttttc ttttcatggg tatctgaagc ctctaagttt tttcaaaaat | 1680 |
| ggagtatcac aaaattgagt gaaacacaat acttaatgta ttgtactaga ttgccaaatt | 1740 |
| cataaaatgt taatggaagc tttttgatgt gattataatg gcactattct ggtcattatc | 1800 |
| ctattttgat tttatttaat tttttaaagt tgaagaatta aatattttta tggttcta | 1860 |
| cttttgcat ccagtgtgca ttaaacctgt ttatatgagt agtcttctgt tagaatcaca | 1920 |
| tctgtgcttt tcttgagtct gctgttgaac tattagatta agtcataatt cataaaattt | 1980 |
| tagtttaatg tgctctttgt aaaatgaaat tgtaaagaaa ataccagtgt ttctcatccc | 2040 |
| attgactcac accacgtcat ctggattttg gatttccctc catgcagcca gctatagttg | 2100 |
| gctttccaaa acaacagaaa tccttcacca atagagtgc ctacttacct gcttatagcc | 2160 |
| tatacagacg aactgatctg tccttcgtga aacgcaacaa agctagttct gtcttttcag | 2220 |
| aagtcctaca accttgacaa agagtagttt tatcaggtaa atcctggtaa ttaaaaacgc | 2280 |
| atgtttttta aaattagcct ggtaaggccg ggtgcagtgg ctcacgcctg taatcccagc | 2340 |
| actttgggag gctgaggtgg gcagatcaca aggtcaggag tttgagacca gcctgaccaa | 2400 |
| aatgggtgaaa ccctgtctct actaaaaaaa agaaaaatta gccagacgtg gtggcatgcy | 2460 |
| cctgtaatcc cagctactca ggaagctgag gcgagagaat cgcttgaacc cgggaggcaa | 2520 |
| aggttgagct gagctgagat cacaccactg cactccagcc tggcgacaga gagagactcc | 2580 |
| atctcaaaac aaaacaaaaa aaattagcct acttaaaggc acaactaaat gctttattac | 2640 |
| ctttcttacc actgaacaat ttgaggtaaa atcattcaca aggttggcac ttcagtaaat | 2700 |
| ccctttaaat agtggttccta agatatctct taaatcctcc cataggaaat agaattacag | 2760 |
| gtaagggtaca ccatacaaaa attgtgtcat tgaggacaat ggtgatctgt aatttttagtt | 2820 |
| gagtatgttt atgatttttg aagccatag gtgagtaaat gtaaatatga aaaaagtgt | 2880 |
| acataaaaca cttcttaaac tttttttttt taaaaactgc tccttggtgga gcaggactac | 2940 |
| cccataggca gtgtaccac aatagatagc cttttgttgt tgttggtgtt gagacaaggt | 3000 |
| ctcgctgttg ccaggctag agcgcagggg cacaatcacc acacactgcc gcttcaatct | 3060 |
| cctgggctca aatgatcctt ccacctcagc ctcccatgtg gctgggacta taggtgcatg | 3120 |
| ccaccacacc cagctaatta aaaaaatttt ttgtgtggag tctatgttgc ccaggctggt | 3180 |

EX03-098C-US patentin.txt

```

ctcttaactc ctaggctcaa gtgatcctcc cacctcagcc tcccaaagtg cttggatgac 3240
aggtgcgagc cactgcacct ggcccacatt ttttaaagag acactgtccc actccatcac 3300
ccaggctgga gtccagtggg gtgatcatag ctactgcat cctccagttc ctgggttcaa 3360
gccatccctc ctgcctcagc ctccccagta gctggaacta caggtgtgtg ccatcacacc 3420
tggttttaca tttttctgtg gggctttact atattgccca agccggtctc aaactcctga 3480
gctcaagtga tcctctgcct cagcctccag agtatctggg attacatatg tcggctaccg 3540
tgtctggccg ttcacatctt tggccactat ttgcttgtga aaaggtataa tgaggtggta 3600
cttatcattt ttactgtgtc tcatgttttg tatatttttg tttcatcaac taagatgcac 3660
tgtaacatct ctgaaatctg gatataattat caatggttta tcatagtttt gttagcaata 3720
cactgtcttt tagtggtgcc taaaataatg gtatagttgt gaggtgatct tagatttgat 3780
gaagcacagt atgcaggtag gcctaattgg ggaagatggg aatataaaaag caagaagtat 3840
tttttttttg taatgactga aagctgttct gtggatgacc taccctttcc tttaaacacg 3900
attctctcac ttccaactcc aaacttgctc aactaatcct taaaaataaa cttgagctgg 3960
aatttg 3966

```

```

<210> 2
<211> 2205
<212> DNA
<213> Homo sapiens

```

```

<400> 2
ccgacgcgcc tggctaggag cgccgaccgc agggcctcta cggaccttac tagaaaaatg 60
aaacctgatg aaactcctat gtttgaccca agtctactca aagaagtgga ctggagtcag 120
aatacagcta cattttctcc agccatttcc ccaacacatc ctggagaagg cttggttttg 180
aggcctcttt gtactgctga cttaaataga ggttttttta aggtattggg tcagctaaca 240
gagactggag ttgtcagccc tgaacaatth atgaaatctt ttgagcatat gaagaaatct 300
ggggattatt atgttacagt tgtagaagat gtgactctag gacagattgt tgctacggca 360
actctgatta tagaacataa attcatccat tcctgtgcta agagaggaag agtagaagat 420
gttggttgta gtgatgaatg cagaggaaag cagcttgga aattgttatt atcaaccctt 480
actttgctaa gcaagaaact gaactgttac' aagattaccc ttgaatgtct accacaaaat 540
gttggtttct ataaaaagtt tggatatact gtatctgaag aaaactacat gtgtcggagg 600
tttctaaagt aaaaatcttg taagaaaatt gtcaaagggg ctaatgctac aaggctacac 660
tcttcctaga gttgaaatat tttgttgctg cagccgagtg acctccataa atactggact 720
gaaaaaacat tgtaatacta caagtataat gacatttaga agattacttt gggctgggtg 780
gacatgctgt gaatttagat tacaaatgaa tattataaag gggatgattt ttaaccaaag 840

```

EX03-098C-US patentin.txt

```

gaatatat ttaacttgaa tcttttcttg cattgtat tttctaaaagt ttggcttcct 900
ttcttggtag tcaagagtat gggtaataag gagttatatg tctgctatct gtgttgctca 960
tttaaaaaaa gtatacattg aataaggctg tttatcacat gcataaaatt aaatatTTTT 1020
gtttcaaaga aacatctcaa tacacttagg ggtgtattgt ttccacata ttaagtcagg 1080
gtggataaat tagttattat aactaaacat agtatagtcc aacattcggt gatcccaata 1140
caggcaaaca acctgggtcaa ccttttgaag tagaagaaat gaaaattact tgacaagatt 1200
aaaagtaaaa ctattttaa gttttactga aagtttatat agtatagtct atgtagataa 1260
aaagtaccac ttgtcttttc tgtgaattat gactattcat ttgttaaaaa tacctaagag 1320
caattatagt gggacatcta aggtcctctg taaacagtga attagcaaac ctcagcctat 1380
gtgtttctac cctgattttt ttcttttcat gggatatctga agcctctaag ttttttcaaa 1440
aatggagtat cacaaaattg agtgaaacac aatacttaat gtattgtact agattgcca 1500
attcataaaa tgtaaatgga agctttttga tgtgattata atggcactat tctggtcatt 1560
atcctat tttt gattttat tttt aattttttaa agttgaagaa ttaaata tttt taatggttct 1620
aatcttttgc attccatggt gcattaaacc tgtttatatg agtagtcttc tgtagaatc 1680
acatctgtgc ttttcttgag tctgctgttg aactattaga ttaagtcata attcataaaa 1740
tttttagttta atgtgctctt tgtaaaatga aattgtaaag aaaataccag tgtttctcat 1800
cccatgact cacaccacgt catctggatt ttggatttcc ctccatgcag ccagctatag 1860
ttggctttcc aaaacaacag aaatccttca ccaatagagt gcactactta cctgcttata 1920
gcctatacag acgaactgat ctgtccttcg tgaaacgcaa caaagctagt tctgtctttt 1980
cagaagtcct acaaccttga caaagagtag ttttatcagg taaatcctgg taattaaaaa 2040
cgcatgtttt taaaaattag cctggtaagg ccgggtgcag tggctcacgc ctgtaatccc 2100
agcactttgg gaggctgagg tgggcagatc acaaggtcag gagtttgaga ccagcctgac 2160
caaatggtg aaaccctgtc tctactaaaa aaaaaaaaaa aaaaa 2205

```

<210> 3
 <211> 2205
 <212> DNA
 <213> Homo sapiens

```

<400> 3
ccgacgcgcc tggctaggag cgccgaccgc agggcctcta cggaccttac tagaaaaatg 60
aaacctgatg aaactcctat gtttgaccca agtctactca aagaagtgga ctggagtcag 120
aatacagcta ctttttctcc agccatttcc ccaacacatc ctggagaagg cttggttttg 180
aggcctcttt gtactgctga cttaaataga ggttttttta aggtattggg tcagctaaca 240
gagactggag ttgtcagccc tgaacaattt atgaaatctt ttgagcatat gaagaaatct 300

```

EX03-098C-US patentin.txt

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|------|
| ggggattatt | atgttacagt | tgtagaagat | gtgactctag | gacagattgt | tgctacggca | 360 |
| actctgatta | tagaacataa | attcatccat | tcctgtgcta | agagaggaag | agtagaagat | 420 |
| gttgttgtta | gtgatgaatg | cagaggaaag | cagcttggca | aattgttatt | atcaaccctt | 480 |
| actttgctaa | gcaagaaact | gaactgttac | aagattaccc | ttgaatgtct | accacaaaat | 540 |
| gttggtttct | ataaaaagtt | tggatatact | gtatctgaag | aaaactacat | gtgtcggagg | 600 |
| tttctaaagt | aaaaatcttg | taagaaaatt | gtcaaagggg | ctaattgctac | aaggctacac | 660 |
| tcttcctaga | gttgaaatat | tttgttgctg | cagccgagtg | acctccataa | atactggact | 720 |
| gaaaaaacat | tgtaatacta | caagtataat | gacattttaga | agattacttt | gggctggtgg | 780 |
| gacatgctgt | gaatttagat | tacaaatgaa | tattataaag | gggatgattt | ttaaccaaag | 840 |
| gaatatattt | ttaacttgaa | tcttttcttg | cattgtattt | ttctaaaagt | ttggcttcct | 900 |
| ttcttggtag | tcaagagtat | gggtaataag | gagttatatg | tctgctatct | gtgttgctca | 960 |
| tttaaaaaaa | gtatacattg | aataaggctg | tttatcacat | gcataaaaatt | aaatattttt | 1020 |
| gtttcaaaga | aacatctcaa | tacacttagg | ggtgtattgt | ttcccacata | ttaagtcagg | 1080 |
| gtggataaat | tagttattat | aactaaacat | agtatagtcc | aacattcggt | gatcccaata | 1140 |
| caggcaaaca | acctggtcaa | ccttttgaag | tagaagaaat | gaaaattact | tgacaagatt | 1200 |
| aaaagtaaaa | ctattttaa | gttttactga | aagtttatat | agtatagtct | atgtagataa | 1260 |
| aaagtaccac | ttgtcttttc | tgtgaattat | gactattcat | ttgttaaaaa | tacctaaagag | 1320 |
| caattatagt | gggacatcta | aggtcctctg | taaacagtga | attagcaaac | ctcagcctat | 1380 |
| gtgtttctac | cctgattttt | ttcttttcat | gggtatctga | agcctctaag | ttttttcaaa | 1440 |
| aatggagtat | cacaaaattg | agtgaaacac | aatacttaat | gtattgtact | agattgccaa | 1500 |
| attcataaaa | tgттаатgga | agctttttga | tgtgattata | atggcactat | tctgggtcatt | 1560 |
| atcctatttt | gatttttatt | aattttttta | agttgaagaa | ttaaatattt | taatggttct | 1620 |
| aatcttttgc | attccatggt | gcattaaacc | tgtttatatg | agtagtcttc | tgttagaatc | 1680 |
| acatctgtgc | ttttcttgag | tctgctgttg | aactattaga | ttaagtcata | attcataaaa | 1740 |
| ttttagttta | atgtgctctt | tgtaaaatga | aattgtaaag | aaaataccag | tgtttctcat | 1800 |
| cccattgact | cacaccacgt | catctggatt | ttggatttcc | ctccatgcag | ccagctatag | 1860 |
| ttggctttcc | aaaacaacag | aaatccttca | ccaatagagt | gcactactta | cctgcttata | 1920 |
| gcctatacag | acgaactgat | ctgtccttcg | tgaaacgcaa | caaagctagt | tctgtctttt | 1980 |
| cagaagtcct | acaaccttga | caaagagtag | ttttatcagg | taaatcctgg | taattaaaaa | 2040 |
| cgcatgtttt | taaaaattag | cctggtaagg | ccgggtgcag | tggtctcacgc | ctgtaatccc | 2100 |
| agcacttttg | gaggctgagg | tgggcagatc | acaaggtcag | gagtttgaga | ccagcctgac | 2160 |

caaaatggtg aaaccctgtc tctactaaaa aaaaaaaaaa aaaaa

2205

<210> 4
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 4

Met Lys Pro Asp Glu Thr Pro Met Phe Asp Pro Ser Leu Leu Lys Glu
 1 5 10 15

Val Asp Trp Ser Gln Asn Thr Ala Thr Phe Ser Pro Ala Ile Ser Pro
 20 25 30

Thr His Pro Gly Glu Gly Leu Val Leu Arg Pro Leu Cys Thr Ala Asp
 35 40 45

Leu Asn Arg Gly Phe Phe Lys Val Leu Gly Gln Leu Thr Glu Thr Gly
 50 55 60

Val Val Ser Pro Glu Gln Phe Met Lys Ser Phe Glu His Met Lys Lys
 65 70 75 80

Ser Gly Asp Tyr Tyr Val Thr Val Val Glu Asp Val Thr Leu Gly Gln
 85 90 95

Ile Val Ala Thr Ala Thr Leu Ile Ile Glu His Lys Phe Ile His Ser
 100 105 110

Cys Ala Lys Arg Gly Arg Val Glu Asp Val Val Val Ser Asp Glu Cys
 115 120 125

Arg Gly Lys Gln Leu Gly Lys Leu Leu Leu Ser Thr Leu Thr Leu Leu
 130 135 140

Ser Lys Lys Leu Asn Cys Tyr Lys Ile Thr Leu Glu Cys Leu Pro Gln
 145 150 155 160

Asn Val Gly Phe Tyr Lys Lys Phe Gly Tyr Thr Val Ser Glu Glu Asn
 165 170 175

Tyr Met Cys Arg Arg Phe Leu Lys
 180

<210> 5
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 5

Met Lys Pro Asp Glu Thr Pro Met Phe Asp Pro Ser Leu Leu Lys Glu
 1 5 10 15
 Val Asp Trp Ser Gln Asn Thr Ala Thr Phe Ser Pro Ala Ile Ser Pro
 20 25 30
 Thr His Pro Gly Glu Gly Leu Val Leu Arg Pro Leu Cys Thr Ala Asp
 35 40 45
 Leu Asn Arg Gly Phe Phe Lys Val Leu Gly Gln Leu Thr Glu Thr Gly
 50 55 60
 Val Val Ser Pro Glu Gln Phe Met Lys Ser Phe Glu His Met Lys Lys
 65 70 75 80
 Ser Gly Asp Tyr Tyr Val Thr Val Val Glu Asp Val Thr Leu Gly Gln
 85 90 95
 Ile Val Ala Thr Ala Thr Leu Ile Ile Glu His Lys Phe Ile His Ser
 100 105 110
 Cys Ala Lys Arg Gly Arg Val Glu Asp Val Val Val Ser Asp Glu Cys
 115 120 125
 Arg Gly Lys Gln Leu Gly Lys Leu Leu Leu Ser Thr Leu Thr Leu Leu
 130 135 140
 Ser Lys Lys Leu Asn Cys Tyr Lys Ile Thr Leu Glu Cys Leu Pro Gln
 145 150 155 160
 Asn Val Gly Phe Tyr Lys Lys Phe Gly Tyr Thr Val Ser Glu Glu Asn
 165 170 175
 Tyr Met Cys Arg Arg Phe Leu Lys
 180